

## FRONT SEAT OUTER BELT ASSEMBLY

### PRECAUTION

#### CAUTION:

Replace the faulty parts of the seat belt systems (outer belt, inner belt, bolts, nuts, adjustable shoulder anchor, tether anchor hardware and other related parts). When inspecting a vehicle that was in a collision, be sure to check all of the seat belt systems regardless of whether or not the system was activated in the collision. Replace any damaged or malfunctioning systems.

#### 1. RUNNING TEST (IN SAFE AREA)

##### CAUTION:

Conduct this test in a safe area.

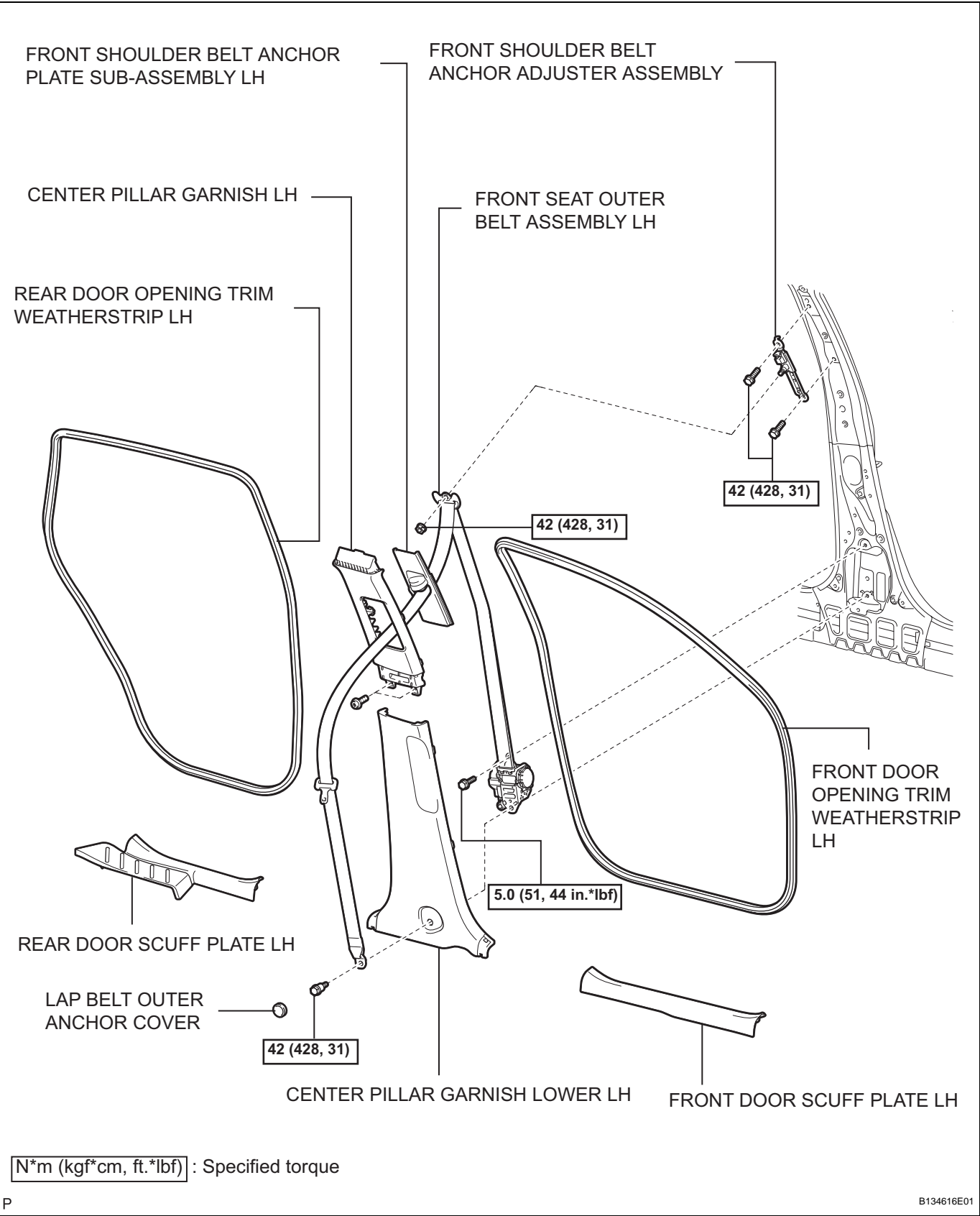
- (a) Fasten the front seat belt.
- (b) Drive the vehicle at 16 km/h (10 mph) and firmly depress the brakes. Check that the belts lock and cannot be extended at this time.

If a belt does not lock, replace the seat belt assembly (see page [SB-27](#)).

##### HINT:

Inspect a seat belt assembly before installing it (see page [SB-29](#)).

COMPONENTS



## REMOVAL

### HINT:

- Use the same procedures for the LH side and RH side.
- The procedures listed below are for the LH side.

### 1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

#### CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

### 2. REMOVE FRONT DOOR SCUFF PLATE LH (See page [IR-26](#))

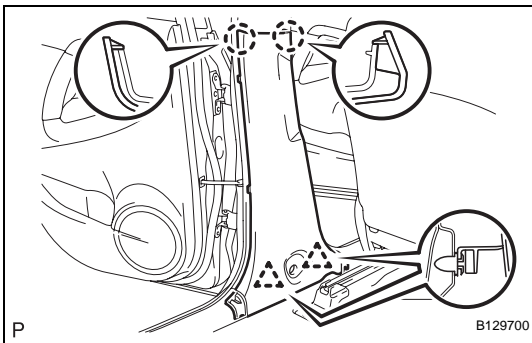
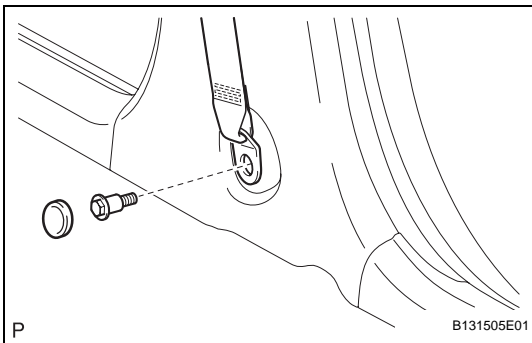
### 3. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP LH

### 4. REMOVE REAR DOOR SCUFF PLATE LH (See page [IR-29](#))

### 5. REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP LH

### 6. REMOVE CENTER PILLAR GARNISH LOWER LH

- Remove the lap belt anchor cover.
- Remove the anchor's built-in bolt from the pillar and disconnect the outer belt.

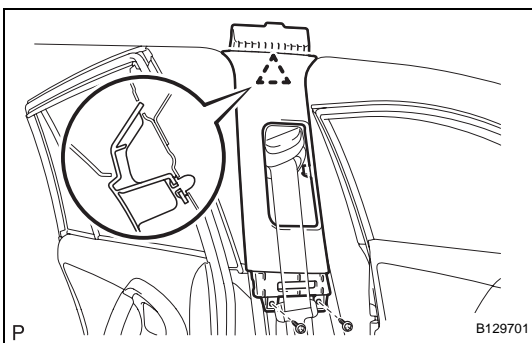


- Using a screwdriver, detach the 2 claws.

#### HINT:

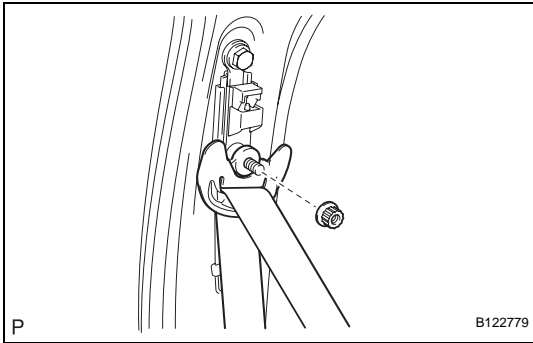
Tape the screwdriver tip before use.

- Using a clip remover, detach the 2 clips and remove the garnish.



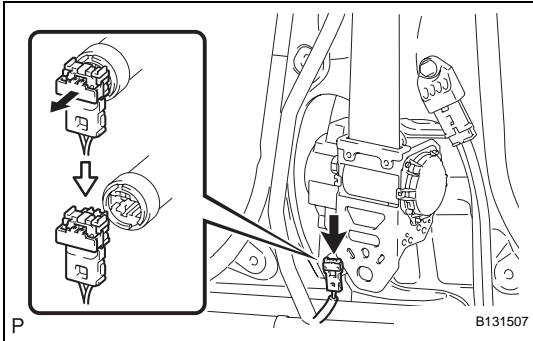
### 7. REMOVE CENTER PILLAR GARNISH LH

- Using a screwdriver, remove the 2 screws.
- Using a clip remover, detach the clip then remove the garnish.
- Pull out the outer belt anchor from the center pillar garnish.

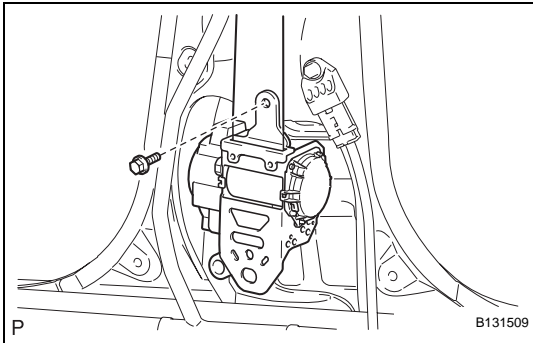


## 8. REMOVE FRONT SEAT OUTER BELT ASSEMBLY LH

- (a) Remove the nut and disconnect the shoulder anchor.

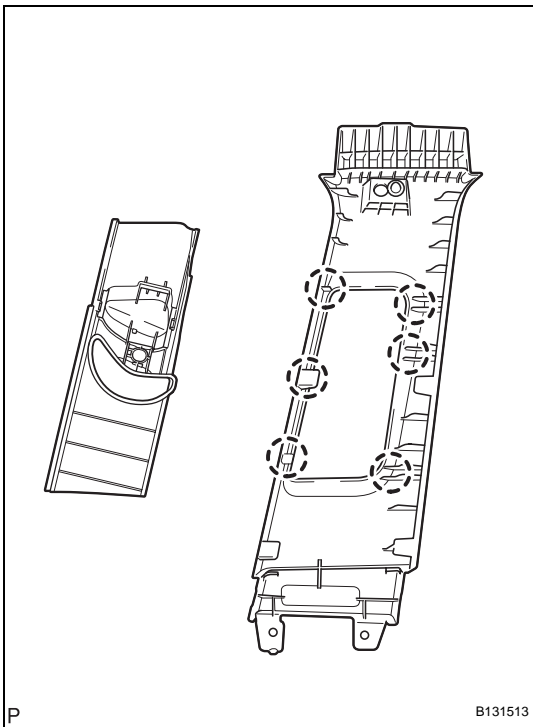


- (b) Disconnect the pretensioner connector as shown in the illustration.



- (c) Remove the bolt and outer belt.

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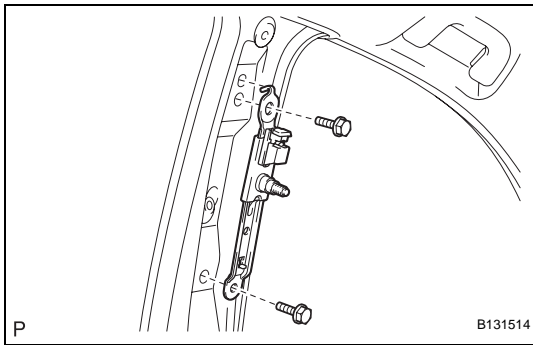


## 9. REMOVE FRONT SHOULDER BELT ANCHOR PLATE SUB-ASSEMBLY LH

- (a) Using a screwdriver, detach the 6 claws.  
 (b) Remove the anchor plate from the garnish.

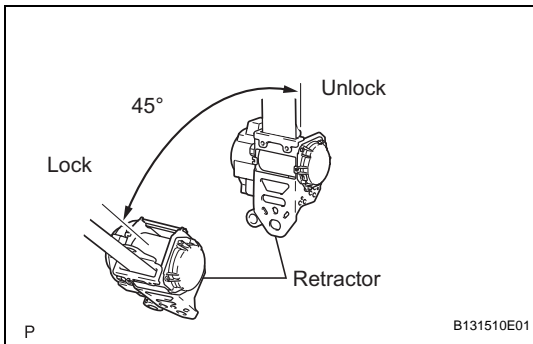
HINT:

Tape the screwdriver tip before use.



## 10. REMOVE FRONT SHOULDER BELT ANCHOR ADJUSTER ASSEMBLY

- (a) Remove the 2 bolts and anchor.



## INSPECTION

### 1. INSPECT FRONT SEAT OUTER BELT ASSEMBLY

#### NOTICE:

**Do not disassemble the retractor.**

- (a) Before installing the outer belt, check the ELR.
- (1) When the inclination of the retractor is  $15^\circ$  or less, check that the belt can be pulled from the retractor. When the inclination of the retractor is over  $45^\circ$ , check that the belt locks.
- If the result is not as specified, replace the outer belt assembly.

## INSTALLATION

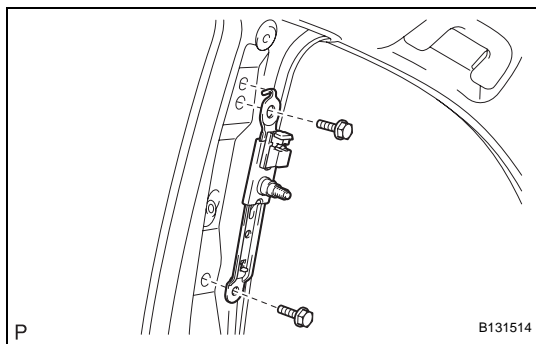
### HINT:

- Use the same procedures for the LH side and RH side.
- The procedures listed below are for the LH side.
- A bolt without a torque specification is shown in the standard bolt chart (see page [SS-2](#)).

### 1. INSTALL FRONT SHOULDER BELT ANCHOR ADJUSTER ASSEMBLY

- (a) Align the adjuster positioning hole with the claw, and install the adjuster with the 2 bolts as shown in the illustration.

**Torque: 42 N\*m (428 kgf\*cm, 31 ft.\*lbf)**



### 2. INSTALL FRONT SHOULDER BELT ANCHOR PLATE SUB-ASSEMBLY LH

- (a) Install the plate as shown in the illustration.

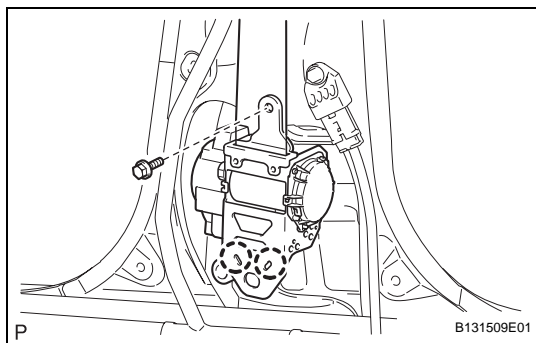
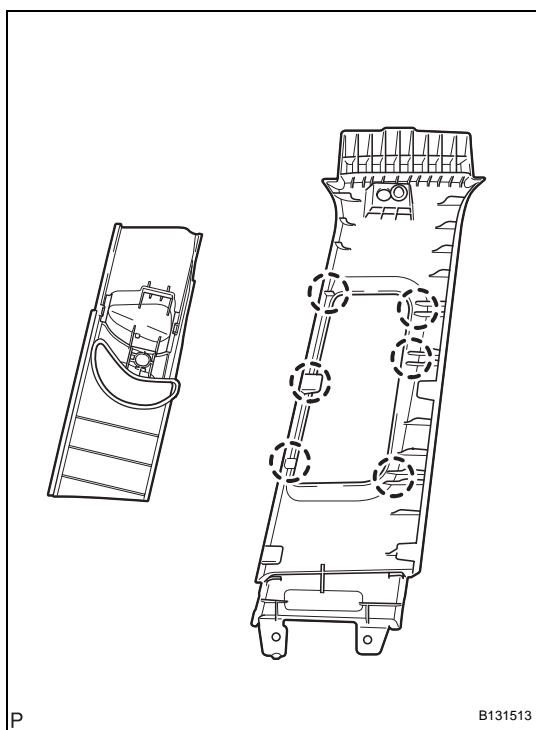
#### HINT:

Make sure the plate is firmly set into the garnish's claws.

### 3. INSTALL FRONT SEAT OUTER BELT ASSEMBLY LH

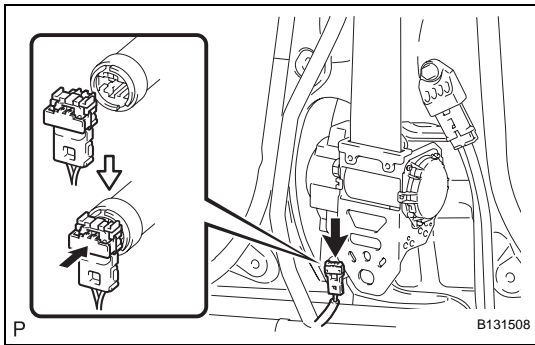
#### NOTICE:

**Do not disassemble the retractor.**

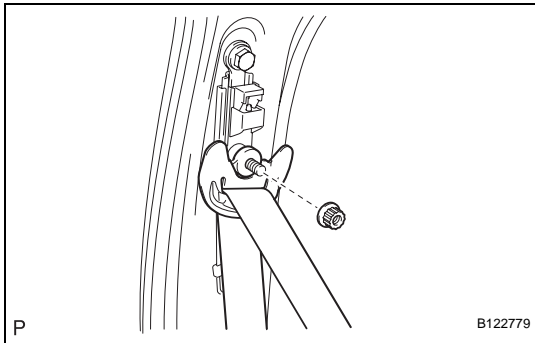


- (a) Align the 2 claws with the seat belt positioning holes, and install the retractor of the outer belt with the bolt as shown in the illustration.

**Torque: 8.5 N\*m (87 kgf\*cm, 75 in.\*lbf)**

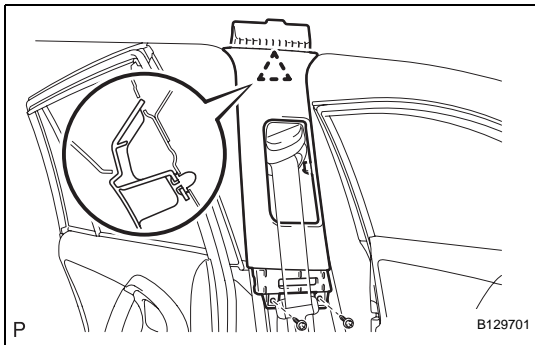


- (b) Connect the pretensioner connector as shown in the illustration.



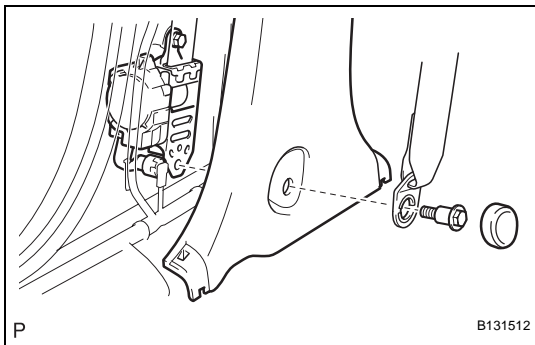
- (c) Connect the outer belt with the shoulder anchor's bolt.

**Torque: 42 N\*m (428 kgf\*cm, 31 ft.\*lbf)**



#### 4. INSTALL CENTER PILLAR GARNISH LH

- Pass the outer belt anchor through the center pillar garnish.
- Attach the clip.
- Install the garnish with the 2 screws.



#### 5. INSTALL CENTER PILLAR GARNISH LOWER LH

- Attach the 2 claws and 2 clips to install the garnish.
- Connect the floor anchor with the bolt.  
**Torque: 42 N\*m (428 kgf\*cm, 31 ft.\*lbf)**
- Attach the lap belt outer anchor cover.

#### 6. INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP LH

#### 7. INSTALL REAR DOOR SCUFF PLATE LH (See page [IR-57](#))

#### 8. INSTALL FRONT DOOR SCUFF PLATE LH (See page [IR-59](#))

#### 9. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP LH

#### 10. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

## DISPOSAL

### HINT:

When scrapping vehicles equipped with a seat belt pretensioner or disposing of a front seat outer belt (with seat belt pretensioner), always first activate the seat belt pretensioner in accordance with the procedures described below. If any abnormality occurs during activation of the seat belt pretensioner, contact the SERVICE DEPARTMENT of TOYOTA MOTOR SALES, U.S.A., INC.

### CAUTION:

- Never dispose of a front seat outer belt that has a non-activated pretensioner.
- The seat belt pretensioner produces a loud, exploding sound when it activates. Perform the operation where it will not be a nuisance to nearby people.
- When activating a front seat outer belt (with seat belt pretensioner), stand at least 10 m (33 ft.) away from the front seat outer belt.
- Use gloves and safety glasses when handling a front seat outer belt with an activated pretensioner.
- Always wash your hands with water after completing the disposal.
- Do not apply water to a front seat outer belt that has an activated pretensioner.
- Perform procedures in a place away from electrical interference.
- When activating the seat belt pretensioner, always use the specified SST (SRS airbag deployment tool).

### 1. DISPOSE OF FRONT SEAT OUTER BELT ASSEMBLY RH (WHEN INSTALLED IN VEHICLE)

#### HINT:

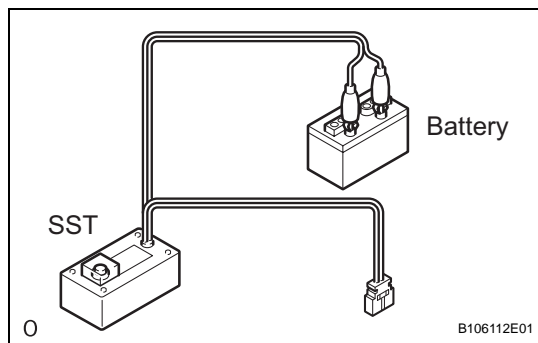
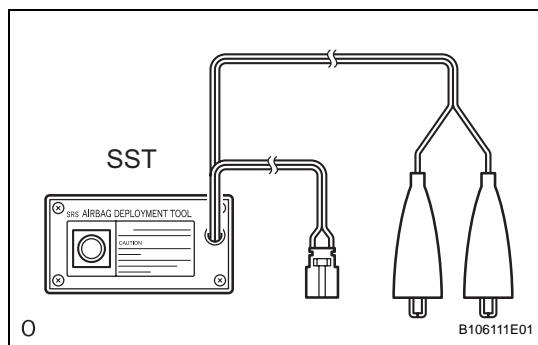
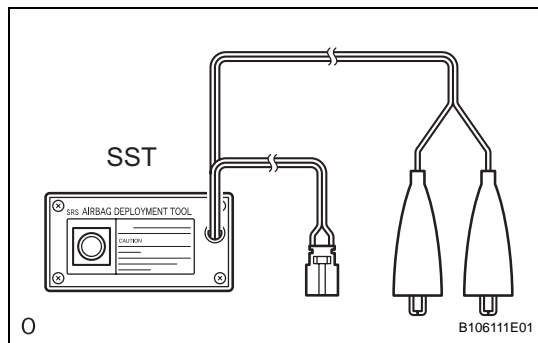
Prepare a battery to activate the seat belt pretensioner.

- (a) Check if SST is functioning properly.

**SST 09082-00700**

#### CAUTION:

**When activating the seat belt pretensioner, always use the specified SST.**

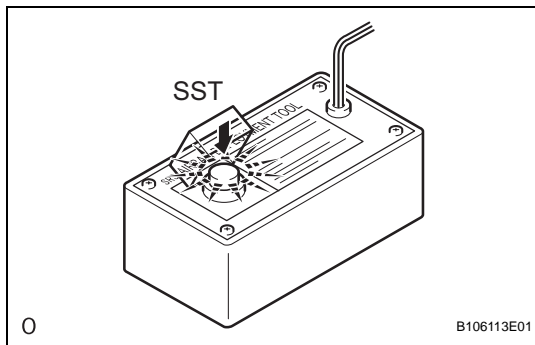


- (1) Connect SST's red clip to the battery's positive (+) terminal and the black clip to the battery's negative (-) terminal.

#### HINT:

Do not connect the yellow connector. The yellow connector is used to connect to the seat belt pretensioner.



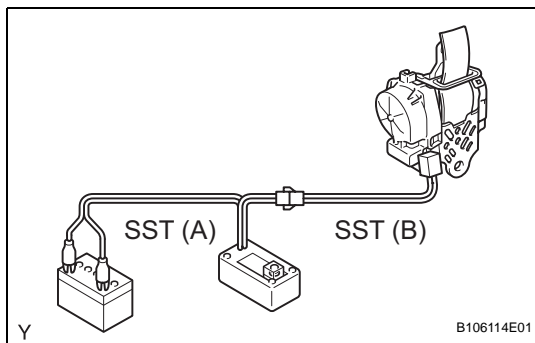
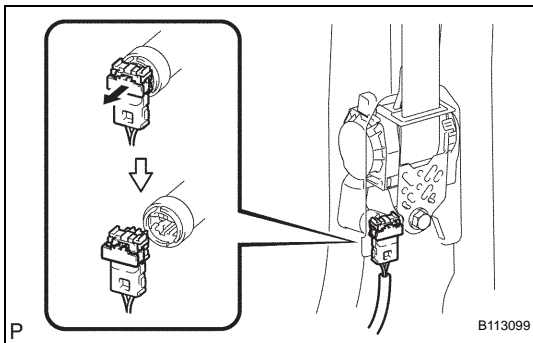


- (2) Press the SST activation switch and check that the LED of the SST activation switch illuminates.

**CAUTION:**

**If the LED illuminates when the activation switch is not being pressed, SST may be malfunctioning. Replace SST with a new one.**

- (b) Disconnect SST from the battery.
- (c) Disconnect the pretensioner connector.
  - (1) Disconnect the cable from the negative (-) battery terminal.
  - (2) Remove the front door scuff plate (see page IR-26).
  - (3) Remove the rear door scuff plate (see page IR-29).
  - (4) Remove the lower center pillar garnish (see page IR-29).
  - (5) Disconnect the pretensioner connector as shown in the illustration.
- (d) Prepare SST for activation of the seat belt pretensioner.
  - (1) Install the floor anchor of the seat belt.

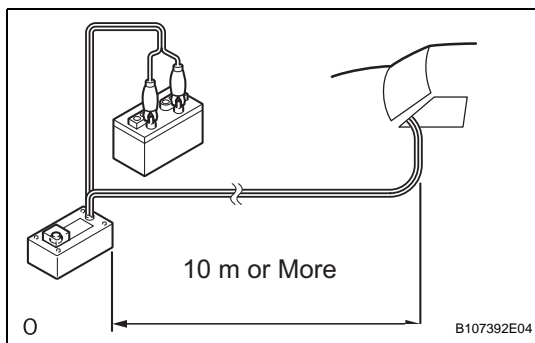


- (2) Connect SST (A) to SST (B). Then connect SST (B)'s connector to the seat belt pretensioner.

**SST 09082-00700, 09082-00770**

**NOTICE:**

**To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock.**

**SB**

- (3) Move SST at least 10 m (33 ft.) away from the front of the vehicle.
- (4) Close all the doors and windows of the vehicle.
 

**HINT:**  
Leave a gap in one of the windows for inserting SST wire harness.

**NOTICE:**  
**Take care not to damage SST wire harness.**
- (5) Connect SST's red clip to the battery's positive (+) terminal and the black clip to the negative (-) terminal.
- (e) Activate the seat belt pretensioner.
  - (1) Confirm that no one is inside the vehicle or within 10 m (33 ft.) of the vehicle.

- (2) Press the SST activation switch to activate the seat belt pretensioner.

HINT:

The seat belt pretensioner operates at the same time the SST activation switch's LED illuminates.

- (f) Dispose of the front seat outer belt (with the seat belt pretensioner).

**CAUTION:**

- **Do not touch the front seat outer belt for at least 30 minutes after the seat belt pretensioner has been activated. It is very hot.**
- **Use gloves and safety glasses when handling a front seat outer belt whose pretensioner has been activated.**
- **Always wash your hands with water after completing the disposal.**
- **Do not apply water to a front seat outer belt that has an activated pretensioner.**

HINT:

When scrapping a vehicle, activate the seat belt pretensioner, and then scrap the vehicle with the activated front seat outer belt installed.

## 2. DISPOSE OF FRONT SEAT OUTER BELT ASSEMBLY (WHEN NOT INSTALLED IN VEHICLE)

**NOTICE:**

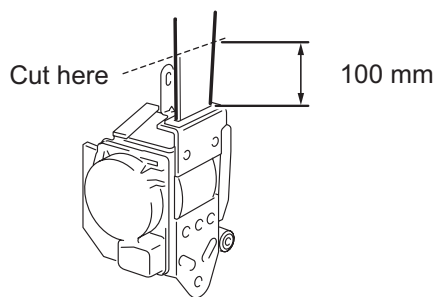
- **When only disposing of the front seat outer belt (with the seat belt pretensioner), never use the customer's vehicle to activate the seat belt pretensioner.**
- **Be sure to follow the procedures listed below when activating the seat belt pretensioner.**

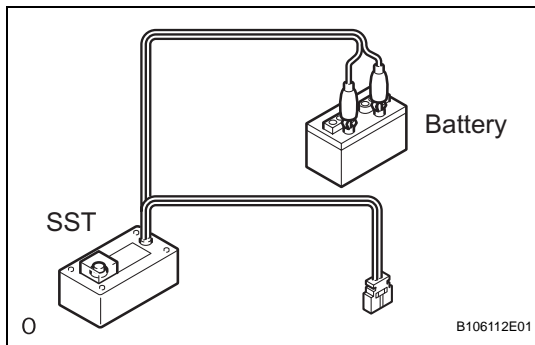
- (a) Remove the front seat outer belt.

- (1) Wind the seat belt with the retractor.
- (2) When the seat belt is sufficiently wound, cut the seat belt approximately 100 mm (0.39 in.) from the retractor, as shown in the illustration.

HINT:

The seat belt is designed so that winding the seat belt before pretensioner activation will decrease the pulling power of the seat belt during pretensioner activation.



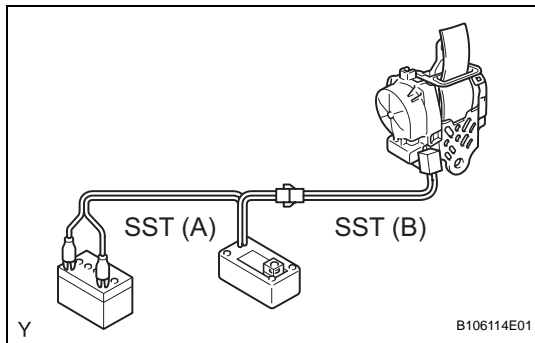


- (b) Check if SST is functioning properly.

**SST 09082-00700, 09082-00770**

**CAUTION:**

**When activating a seat belt pretensioner, always use the specified SST.**

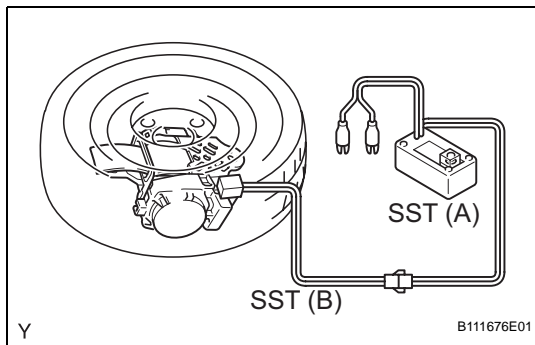


- (c) Prepare SST for activation of the seat belt pretensioner.

- (1) Connect SST (A) to SST (B). Then connect SST (B)'s connector to the seat belt pretensioner.

**NOTICE:**

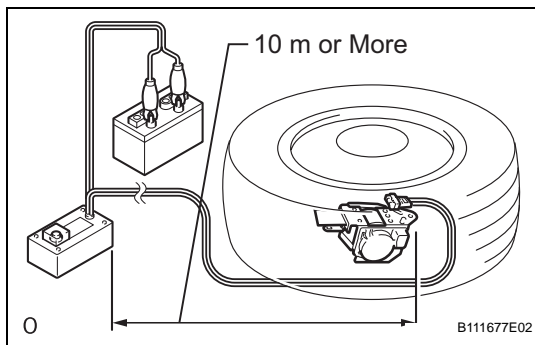
**To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock.**



- (2) Place the front seat outer belt on the ground and cover it with a tire (with wheel).

**NOTICE:**

**Set up the front seat outer belt as shown in the illustration.**



- (3) Move SST at least 10 m (33 ft.) away from the wheel.

**NOTICE:**

**Take care not to damage the SST wire harness.**

- (d) Activate the seat belt pretensioner.

- (1) Connect SST's red clip to the battery's positive (+) terminal and the black clip to the battery's negative (-) terminal.

- (2) Check that no one is within 10 m (33 ft) of the wheel.

- (3) Press the SST activation switch to activate the seat belt pretensioner.

**HINT:**

The seat belt pretensioner operates at the same time the SST activation switch's LED illuminates.

- (e) Dispose of the front seat outer belt (with the seat belt pretensioner).

**CAUTION:**

- **Do not touch the front seat outer belt for at least 30 minutes after the seat belt pretensioner has been activated. It is very hot.**
- **Use gloves and safety glasses when handling a front seat outer belt whose pretensioner has been activated.**
- **Always wash your hands with water after completing the disposal.**
- **Do not apply water to a front seat outer belt that has an activated pretensioner.**

- (1) Remove the tire (with wheel) and SST.
- (2) Place the front seat outer belt in a plastic bag, tie the end tightly and dispose of it in the same way as other general parts.

